

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P867171

Luminaire Tested: PRLX-2002-L-940-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-940-83L-G-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

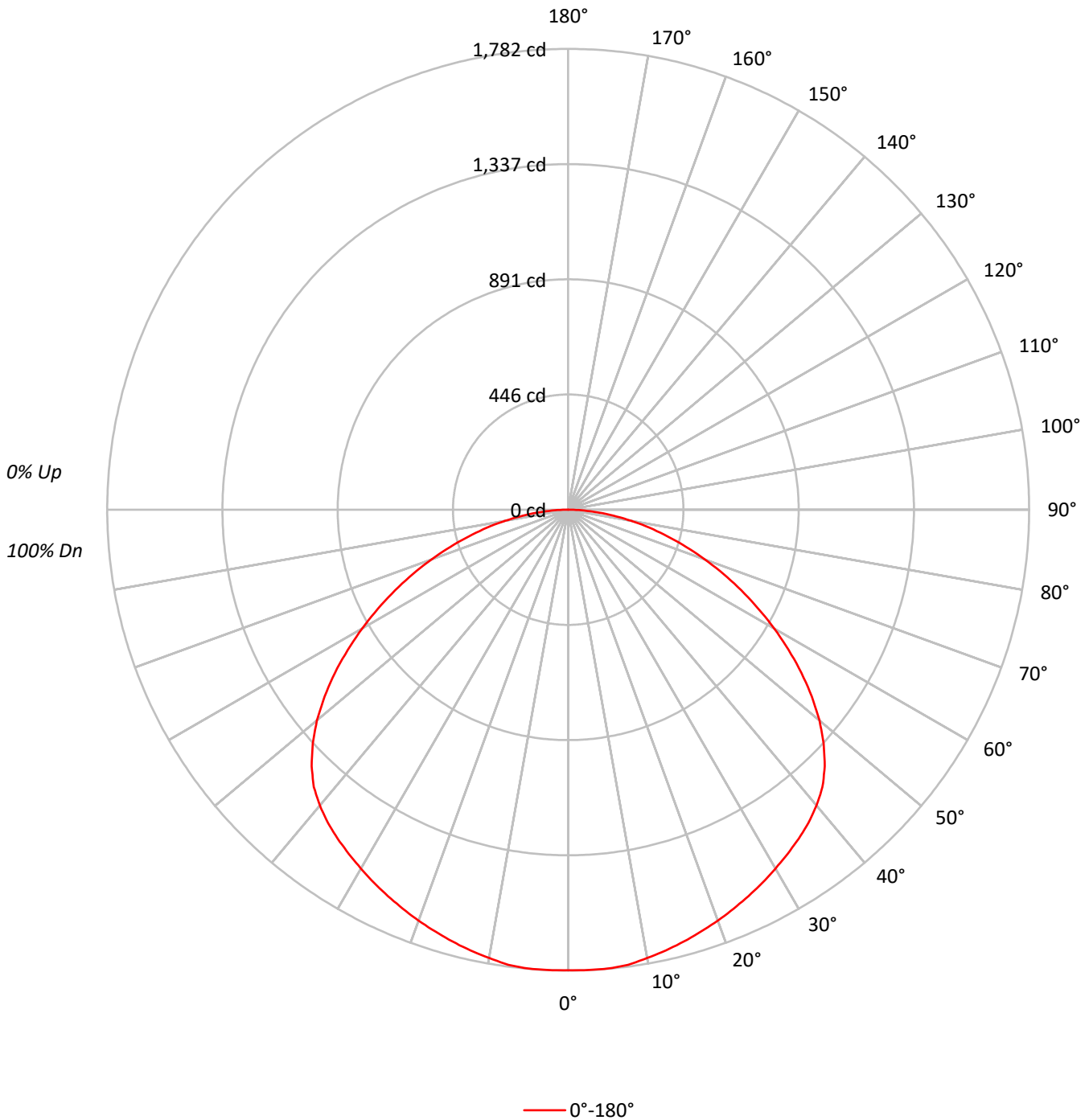
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5731.6 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	8788
5°	8822
10°	8819
15°	8830
20°	8879
25°	8975
30°	9128
35°	9354
40°	9620
45°	9787
50°	9730
55°	9471
60°	9077
65°	8615
70°	8098
75°	7555
80°	7009
85°	6244

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9787 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.4	3.0
10°-20°	488.7	8.5
20°-30°	761.6	13.3
30°-40°	973.2	17.0
40°-50°	1077.5	18.8
50°-60°	982.0	17.1
60°-70°	731.6	12.8
70°-80°	422.3	7.4
80°-90°	125.2	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1419.7	24.8
0°-40°	2392.9	41.7
0°-60°	4452.4	77.7
0°-90°	5731.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5731.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1781	
5°	1781	169
15°	1729	489
25°	1649	762
35°	1553	973
45°	1403	1077
55°	1101	982
65°	738	732
75°	396	422
85°	110	125
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1781.2
2.5°	1782.0
5°	1781.2
7.5°	1775.0
10°	1760.4
12.5°	1745.7
15°	1728.8
17.5°	1710.3
20°	1691.0
22.5°	1670.2
25°	1648.6
27.5°	1626.2
30°	1602.3
32.5°	1578.4
35°	1553.0
37.5°	1526.0
40°	1493.6
42.5°	1455.0
45°	1402.6
47.5°	1339.4
50°	1267.7
52.5°	1186.7
55°	1101.1
57.5°	1010.1
60°	919.9
62.5°	828.9
65°	737.9
67.5°	650.0
70°	561.4
72.5°	478.8
75°	396.3
77.5°	322.3
80°	246.7
82.5°	175.8
85°	110.3
87.5°	50.9
90°	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.08	21.76	20.44	22.07	22.38	20.08	21.76	20.44	22.07	22.38
	3H	21.83	23.35	22.21	23.67	24.03	21.83	23.35	22.21	23.67	24.03
	4H	22.49	23.93	22.89	24.27	24.65	22.49	23.93	22.89	24.27	24.65
	6H	23.01	24.34	23.42	24.70	25.10	23.01	24.34	23.42	24.70	25.10
	8H	23.19	24.46	23.61	24.85	25.24	23.19	24.46	23.61	24.85	25.24
	12H	23.31	24.53	23.74	24.91	25.34	23.31	24.53	23.74	24.91	25.34
4H	2H	20.70	22.13	21.10	22.48	22.85	20.70	22.13	21.10	22.48	22.85
	3H	22.67	23.88	23.08	24.27	24.67	22.67	23.88	23.08	24.27	24.67
	4H	23.47	24.56	23.90	24.97	25.41	23.47	24.56	23.90	24.97	25.41
	6H	24.13	25.08	24.58	25.52	25.97	24.13	25.08	24.58	25.52	25.97
	8H	24.35	25.25	24.81	25.69	26.15	24.35	25.25	24.81	25.69	26.15
	12H	24.53	25.33	25.00	25.81	26.27	24.53	25.33	25.00	25.81	26.27
8H	4H	23.79	24.69	24.25	25.13	25.59	23.79	24.69	24.25	25.13	25.59
	6H	24.58	25.32	25.07	25.81	26.28	24.58	25.32	25.07	25.81	26.28
	8H	24.88	25.55	25.39	26.06	26.54	24.88	25.55	25.39	26.06	26.54
	12H	25.14	25.73	25.64	26.22	26.78	25.14	25.73	25.64	26.22	26.78
12H	4H	23.83	24.64	24.31	25.11	25.58	23.83	24.64	24.31	25.11	25.58
	6H	24.64	25.31	25.15	25.82	26.30	24.64	25.31	25.15	25.82	26.30
	8H	25.01	25.60	25.51	26.09	26.65	25.01	25.60	25.51	26.09	26.65